

**From:** Jeff James  
**To:** [David.Towell@ch2m.com](mailto:David.Towell@ch2m.com)  
**Cc:** [Praskins, Wayne](mailto:Praskins.Wayne@epa.gov); [Bilder, Donald A UTCHO \(DONALD.BILDER@UTC.COM\)](mailto:Bilder.Donald.A.UTCHO@UTC.COM); [David Dunbar](mailto:David.Dunbar@ensafe.com)  
**Subject:** RE: RFF Site - PW-16 Proposed Well Screens  
**Date:** Friday, September 8, 2017 1:04:13 PM

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David,

Thanks for getting back to us so quickly, the suggested revisions are fine with us.

To give everyone a quick update, we are currently over drilling PW-16 and expect to begin installation of the wells sometime on Monday.

We plan to conduct the utility clearance and will likely setup the sound walls around PW-17 the middle of next week, and will either begin drilling late next week or on 9/18.

Thanks,

Jeff

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**From:** Towell, David/LAC [mailto:[David.Towell@CH2M.com](mailto:David.Towell@CH2M.com)]  
**Sent:** Friday, September 8, 2017 10:55 AM  
**To:** Jeff James <[jjames@Ensaf.com](mailto:jjames@Ensaf.com)>  
**Cc:** Praskins, Wayne <[Praskins.Wayne@epa.gov](mailto:Praskins.Wayne@epa.gov)>; Bilder, Donald A UTCHQ (DONALD.BILDER@UTC.COM) <[DONALD.BILDER@UTC.COM](mailto:DONALD.BILDER@UTC.COM)>; David Dunbar <[ddunbar@ensafe.com](mailto:ddunbar@ensafe.com)>  
**Subject:** RE: RFF Site - PW-16 Proposed Well Screens

Hi Jeff,

Based on our review of the logs and the PW-15 information, we suggest two very minor revisions to your proposed screened intervals:

- Lower the upper screen by two feet to 298' – 308'
- Raise the 2<sup>nd</sup> screen by two feet to 336' – 346'

Let us know if you have any questions.

**David Towell**

*Program Manager/Sr. Project Manager*

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**From:** Praskins, Wayne [<mailto:Praskins.Wayne@epa.gov>]

**Sent:** Thursday, September 07, 2017 5:30 PM

**To:** Jeff James <[jjames@Ensafes.com](mailto:jjames@Ensafes.com)>; Towell, David/LAC <[David.Towell@CH2M.com](mailto:David.Towell@CH2M.com)>

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**Subject:** RE: RFF Site - PW-16 Proposed Well Screens [EXTERNAL]

Jeff –

Thanks. David or I will respond tomorrow AM.

**Wayne Praskins** | Superfund Project Manager

**U.S. Environmental Protection Agency Region 9**

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**From:** Jeff James [<mailto:jjames@Ensafes.com>]

**Sent:** Thursday, September 7, 2017 2:12 PM

**To:** Praskins, Wayne <[Praskins.Wayne@epa.gov](mailto:Praskins.Wayne@epa.gov)>; [David.Towell@ch2m.com](mailto:David.Towell@ch2m.com)

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**Subject:** RFF Site - PW-16 Proposed Well Screens

Wayne,

Attached, please find the geophysical logs and the draft boring log for Well PW-16. In addition to the logs, we also considered the results of groundwater samples collected using the Stratprobe tool in selecting proposed screened intervals. These results are summarized below:

- 250' bgs – no groundwater sample could be collected, soil cuttings appeared to be damp
- 300' bgs – no groundwater sample could be collected
- 350' bgs – 15 ug/L perchlorate
- 410' bgs – Sample collected from a temporary well due to damage to Stratprobe, 0.21 ug/L perchlorate

Based on our review of the logs and sample results, we would propose the following four screened intervals.

- 296' – 306' bgs – Good (high) resistivity and gamma log signatures, sonic log indicates a porous zone at this depth. Boring log describes a sand and gravel zone at this depth. Correlates approximately with the 276'-286' screened interval in PW15.
- 338' – 348' bgs – Good (high) resistivity and gamma log signatures, sonic log indicates a porous zone at this depth. Boring log describes a sand and fine gravel zone at this

depth. Grab sample from 350' bgs contained 15 ug/L perchlorate. May correlate with the screened interval 310'-320' screened interval in PW15.

- 405' – 415' bgs – Good (high) resistivity and gamma log signatures, sonic log indicates a porous zone at this depth. May correlate with the 370'-380' screened interval in PW-15.
- 434' – 444' bgs - Good (high) resistivity and gamma log signatures, sonic log indicates a porous zone at this depth. Boring log describes medium to coarse sand at this depth.

Please let me know if you have any comments or questions. We are also available anytime tomorrow if we need to have a call to discuss the interpretations. Pending your approval, we anticipate beginning well installation Monday morning.

Thanks,

Jeff

**Jeffrey James, PE**

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